

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

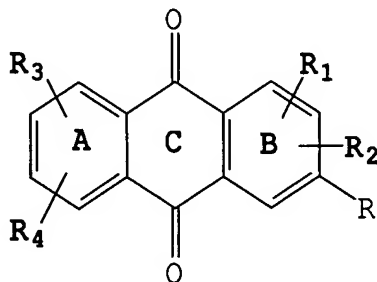
LISTING OF CLAIMS

Claims 1 - 21 (Cancelled)

-22- (Currently Amended)

An antihelminthic composition which comprises:

(a) at least one anthraquinone of the formula:



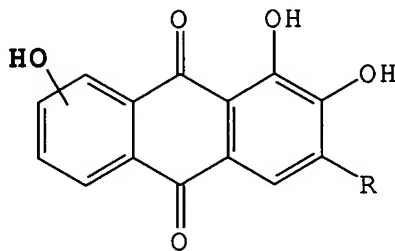
wherein R₁, R₂, R₃, and R₄ are each selected from the group consisting of hydrogen, hydroxy, halogen, alkyl, alkene, alkyne, aryl, aryl, cyclic, COOH, and carbohydrate groups, which provides antihelminthic activity, R is selected from the group consisting of alkyl, aldehyde, hydroxy, hydroxymethyl, COOH, and carbohydrate groups, the carbon containing of the group ~~R₁, R₂, R₃ or R₄ groups~~ containing 1 to 12 carbon atoms, and the halogen is selected from the group consisting of I, F, Br, and Cl, but not 1,2,8-trihydroxy-3-methyl anthraquinone or 1,8-hydroxy-3-R-anthraquinone where R is methyl, hydroxyl, hydroxymethyl or COOH; and

(b) a pharmaceutically acceptable carrier, wherein the composition contains between about 1 and 1,000 micrograms of the anthraquinone per milliliter or gram of the carrier.

-23- (Currently Amended)

The An antihelminthic composition which comprises:

(a) at least one of Claim 22 wherein the anthraquinone of has the formula:



wherein R is selected from the group consisting of aldehyde, hydroxymethyl, COOH and carbohydrate groups; and

(b) a pharmaceutically acceptable carrier, wherein the composition contains between about 1 and 1,000 micrograms of the anthraquinone per milliliter or gram of the carrier.

-24- (Currently Amended)

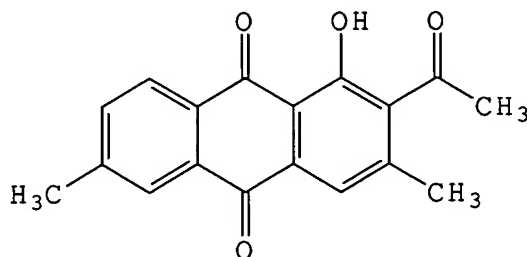
An The antihelminthic composition which comprises:

(a) at least one of Claim 22 wherein the
anthraquinone ~~is~~ selected from the group consisting of 1-
hydroxy-2-acetyl-3,6-methyl anthraquinone, 2-acetyl-3,6-
methyl anthraquinone monoacetate, 1-hydroxy-2-acetyl-3,7-
methyl anthraquinone, 2-acetyl-3,7-methyl anthraquinone
monoacetate, 1,8-dihydroxy-2-O- β -D-glucopyranoside
anthraquinone, 1,2,8-trihydroxy-3-hydroxymethyl
anthraquinone, and 1,8-dihydroxy-3-carboxy anthraquinone;
and

(b) a pharmaceutically acceptable carrier, wherein
the composition contains between about 1 and 1,000
micrograms of the anthraquinone per milliliter or gram of
the carrier.

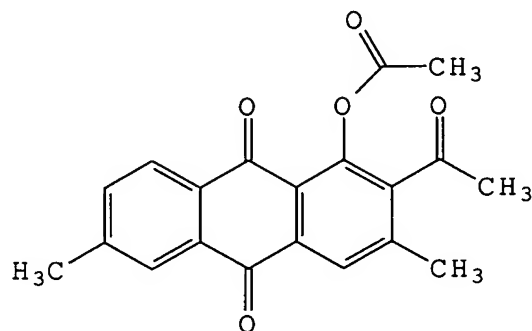
-25- (Presently presented)

An isolated and purified anthraquinone which has
the formula:



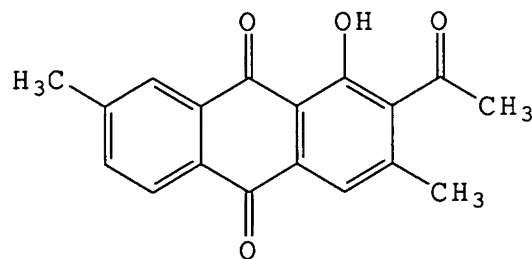
-26- (Previously presented)

An isolated and purified anthraquinone which has the formula:



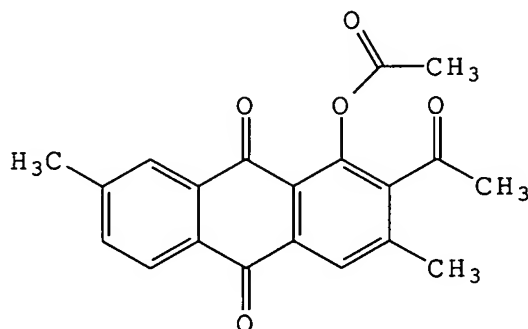
-27- (Previously presented)

An isolated and purified anthraquinone which has the formula:



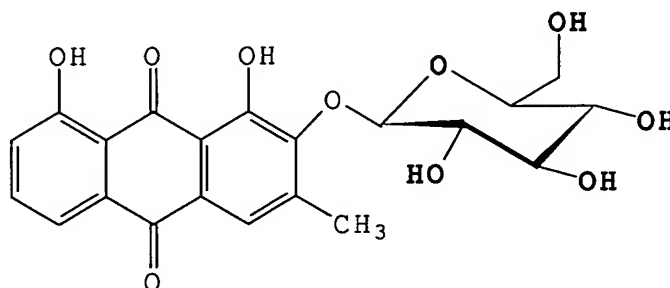
-28- (Previously presented)

An isolated and purified anthraquinone which has the formula:



-29- (Previously presented)

An isolated and purified anthraquinone which has the formula:



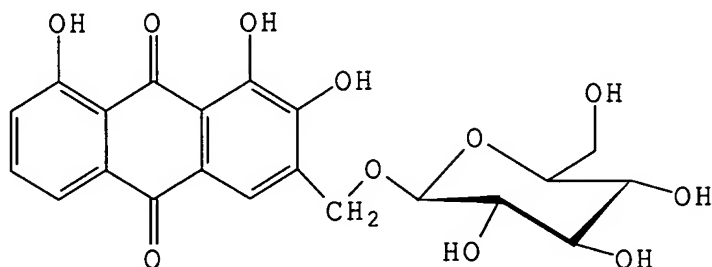
The chemical structure of compound 1 is shown. It consists of a 9,10-anthraquinone core with hydroxyl groups at positions 2 and 7, and a methyl group at position 3. A glucose molecule is attached to the oxygen at position 6 via a beta-glycosidic bond. The glucose is in its pyranose form, and the carboxylic acid group is attached to the glucose at the C6 position.

-31- (Previously presented)

Oc1ccc2c(c1)C(=O)c3cc(O)c(CO)cc3C(=O)c2

-32- (Previously presented)

An isolated and purified anthraquinone which has the formula:



-33- (Previously presented)

An isolated and purified anthraquinone which has the formula:

